VSC 500

HIGH-RESOLUTION, COMPUTER-TO-VIDEO SCAN CONVERTER

- One VGA input, three simultaneous outputs composite video, S-video, and component video or RGB video
- Autoscanning up to 1600 x 1200
- Auto setup
- Four vertical filters to improve image clarity
- Sizing & centering controls
- Zoom control with eight presets
- 16 auto memory locations and 60 factory presets
- Freeze function locks output to current image in memory
- Internal color bar generator
- IR and RS-232 remote control

The Extron VSC 500 high-resolution, computer-to-video scan converter, is a combination of high performance processing, essential features, and value. Innovative technologies incorporated into the scan conversion engine improve video performance and enhance video output for use in everyday A/V systems.

Description

The Extron **VSC 500** high-resolution, computer-to-video scan converter is a combination of high performance processing, features, and value. It converts computer images from up to 1600 x 1200 for output as composite video, S-video, component video, and/or RGB video. Applications include videoconferencing, video recording, and viewing of images on an NTSC or PAL monitor or other display device. Key features include automatic setup of centering and sizing controls, vertical and horizontal filtering, an LCD window for user-friendly menu navigation, memory presets, and a buffered loop-through for local monitor output. The VSC 500 can be controlled via the front panel, IR remote, or RS-232.

Features

- **Autoscanning** – Automatically recognizes and down converts the incoming computer image, up to 1600 x 1200 resolution, 100 kHz horizontal and 120 kHz vertical scan rates.
- **Input** – 15-pin HD female VGA connector and VGA buffered loop-through for local monitor output. Adapters are available for MAC inputs.
- **Outputs** – Three simultaneous NTSC or PAL video outputs as RGBHV, RGBS, RGsB or component video, composite video, and S-video.
- **Memory** – Allows the scan converter to automatically recall up to 16 user presets & an additional 60 factory presets, along with eight zoom presets that can be accessed with RS-232 or the included IR remote. This allows greater functionality when converting images from several types of computers.
- **Auto – Image™ setup** – A press of a button automatically adjusts the sizing, centering, and filtering in order to optimize the output image.
- **High quality Zoom control** – Increased pixel clocking is used for variable zoom to provide greater quality of the displayed image.
- **Sizing & centering controls** – Allow for user-friendly positioning and sizing of the image on screen, as well as flexibility when panning across the image while zooming.
- **Vertical filtering** – The VSC 500 has four vertical filter settings selectable through the front panel LCD navigation menus. Filters reduce jitter, improve image stability, and assure that no picture detail is dropped during scan conversion.

Features (Cont.)

- **Freeze/Reset button** – The freeze function locks the output display to the current image that is stored in memory using the button on the front panel, the IR remote, or RS-232. The Freeze/Reset LED will illuminate to show this feature is enabled. Once an input has been frozen, it can be removed from the unit, and the frozen output will not be lost.
- **Internal color bar generator** – The VSC 500's output can be set to default to either a color bar pattern or black screen to show when there is no input present.
- **IR remote** – Included remote performs most panel functions, such as the ability to freeze the image, zoom in and out, size and shift horizontally and vertically, adjust the vertical filters, and set presets.
- **RS-232 remote control** – Extron's Simple Instruction Set (SIS™) is provided for RS-232 control via Extron's Windows®-based control program or third-party control system.
- **Executive Mode** – Locks out all front panel functions except for the centering controls. All other functions remain active through RS-232.
- **Rack-mountable** – The VSC 500 is housed in a 1U high, half rack width metal enclosure.
- **International internal power supply** – The 100-240VAC, 50/60 Hz, auto switchable, internal power supply provides worldwide power compatibility.

VSC Remote

The Extron VSC Remote provides infrared remote control for the VSC 500 scan converter. It performs most front panel functions, such as image freeze, zoom in and out, size and shift horizontally and vertically, adjust the vertical filters, and set presets.

VSC Remote

VIDEO INPUT

Number/signal type	1 RGBHV, RGBS, RGsB with 1 buffered loop-through
Connectors	1 15-pin HD for input, 1 15-pin HD for loop-through
Minimum/maximum levels	0V to 2.0V p-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	Autoscan 24 kHz to 100 kHz
Vertical frequency	Autoscan 50 Hz to 120 Hz
Resolution range	Autoscan 560 x 384 to 1600 X 1200
Maximum DC offset	2.0
Encoder	10 bit digital
Digital sampling	24 bit, 8 bits per color
Colors	16.8 million
Vertical filtering	4 levels (selectable)
Encoder filtering	4 levels

VIDEO OUTPUT

Number/signal type	1 RGBHV, RGBS, RGsB, or component video; 1 S-video; 1 composite video (NTSC 15.75 kHz, 525 lines; or PAL, 15.5 kHz, 625 lines)
Connectors	5 BNC female: RGBHV/RGBS/RGsB/ component video 1 4-pin mini DIN female: S-video 1 BNC female: NTSC/PAL composite video
Minimum/maximum levels	0.0V to 1.0V p-p
Impedance	75 ohms

SYNC

Input type	Autodetect RGBHV, RGBS, RGsB
Output type	RGBHV, RGBS, RGsB
Standards	NTSC 3.58, PAL
Input level	1.5V to 5.0V p-p
Output level	TTL: 5.0V p-p
Input impedance	75 ohms
Output impedance	75 ohms
Max input voltage	5.0V p-p
Polarity	Negative

CONTROL/REMOTE — SCAN CONVERTER

Serial control port	RS-232 or RS-422, 9-pin female D connector
Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND, IR controller module VSC Remote
Program control	Extron's control program for Windows® Extron's Simple Instruction Set™ – SIS™

GENERAL

Power	100VAC to 240VAC, 50/60 Hz, 40 watts, internal, auto-switchable
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	Yes, with optional rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D (1U high, half rack width) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs.)
Product weight	3.1 lbs (1.4 kg)
Shipping weight	5 lbs (2.3 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

Model	**Part Numbers**
VSC 500	60-476-01

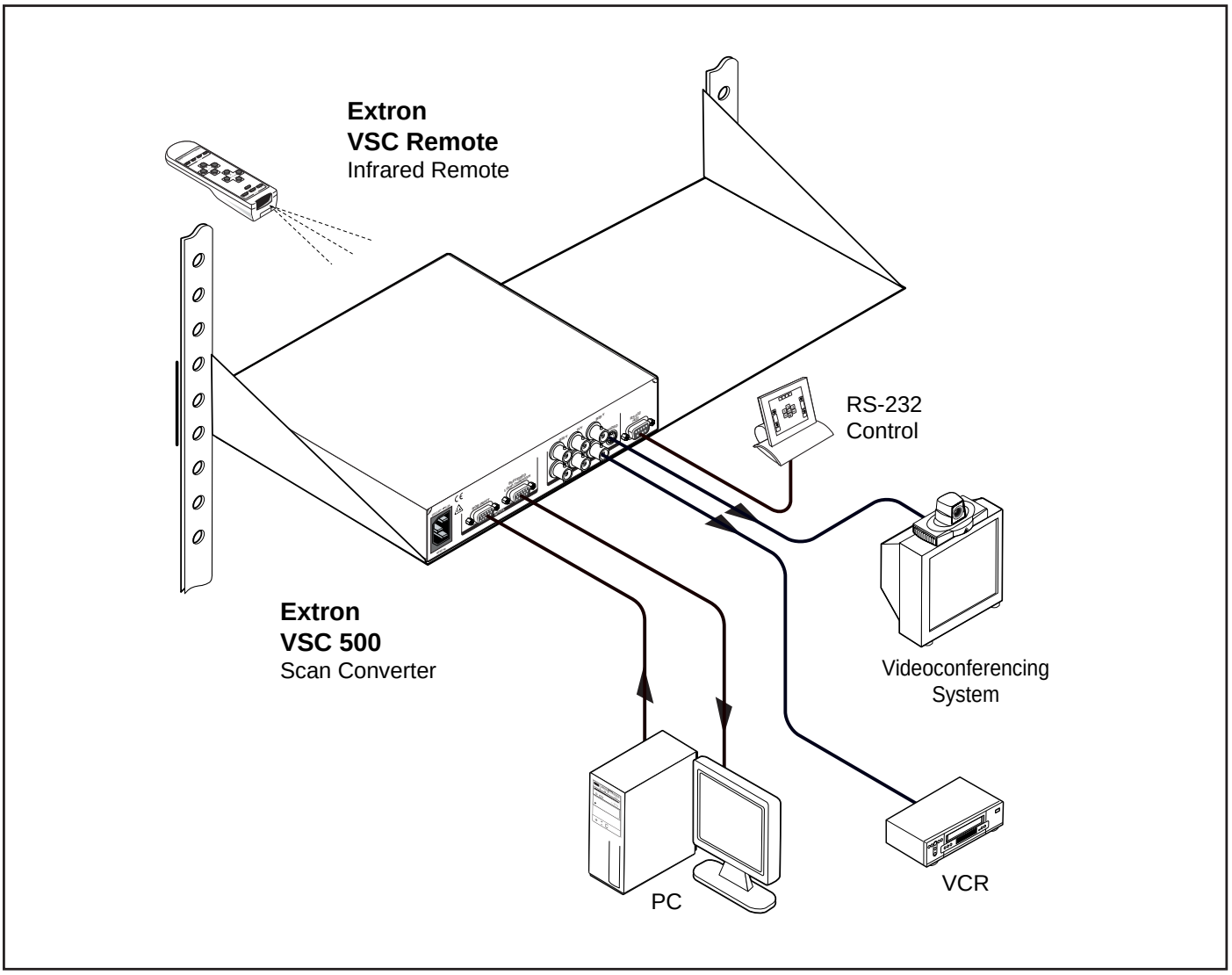
Included Accessories

VGA M6' MHR	26-238-01
BNC 5-6' MHR	26-260-01
SVHSF 6'	26-542-02
VSC IR Remote	70-206-01

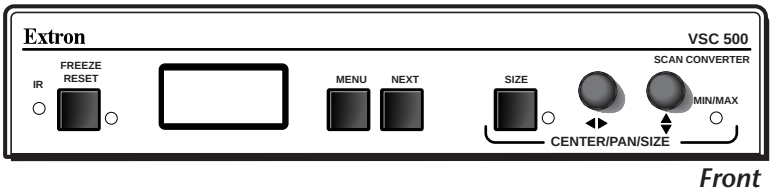
Optional Accessories

Under Desk mounting kit	70-219-01
1U Rack Shelf	60-190-01
SVHSM-BNCF Adapter	26-353-01
RCA (female) or BNC (male) Adapter	10-264-01
S-video cable 6' (1.8m)	26-316-02

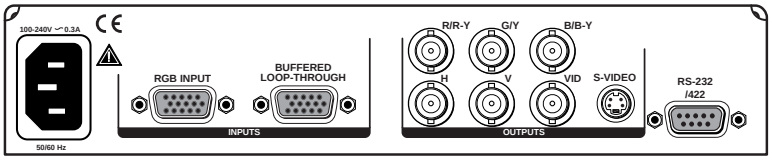
Application Diagram



Panel Drawings



Front



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02-08
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